

FIG.1A PRIOR ART

IMAGE INTENSITY OF FRONT SIDE AND BACKSIDE

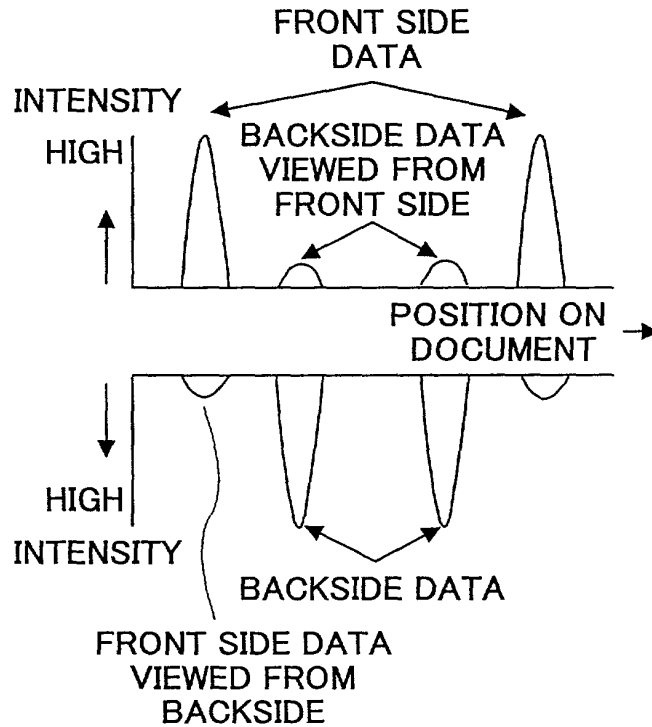


FIG.1B PRIOR ART

(a) IMAGE INTENSITY OF FRONT SIDE SHOW IN FIG.1A

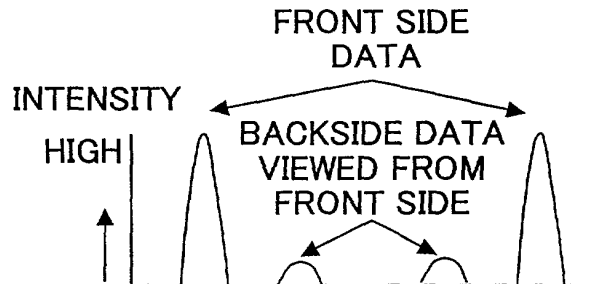


FIG.2A PRIOR ART

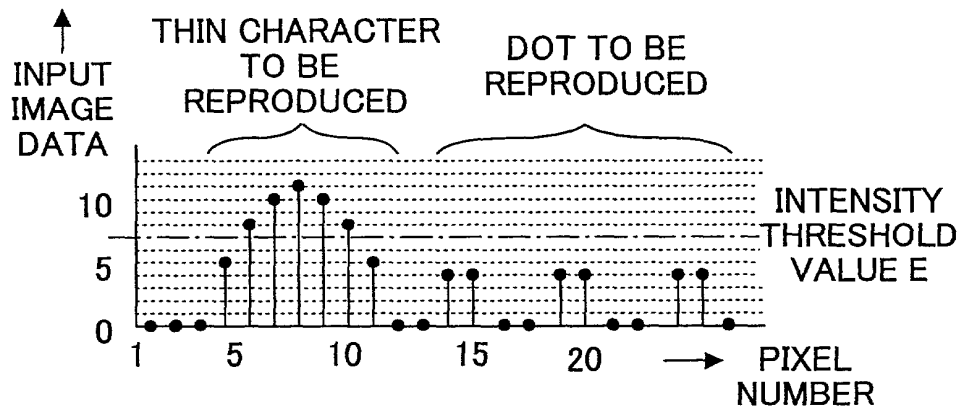


FIG.2B PRIOR ART

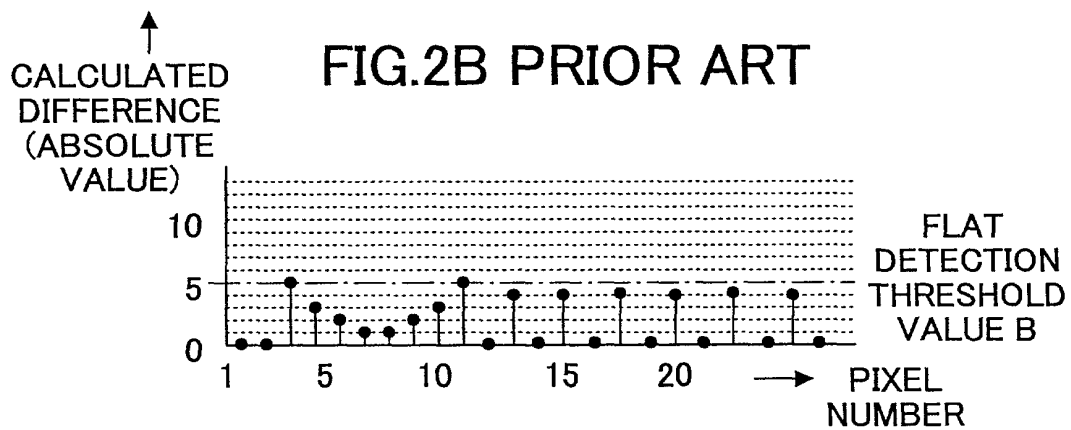


FIG.2C PRIOR ART

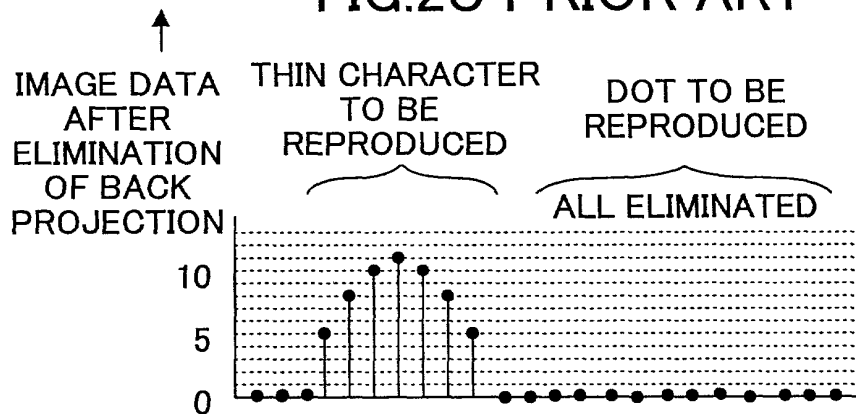
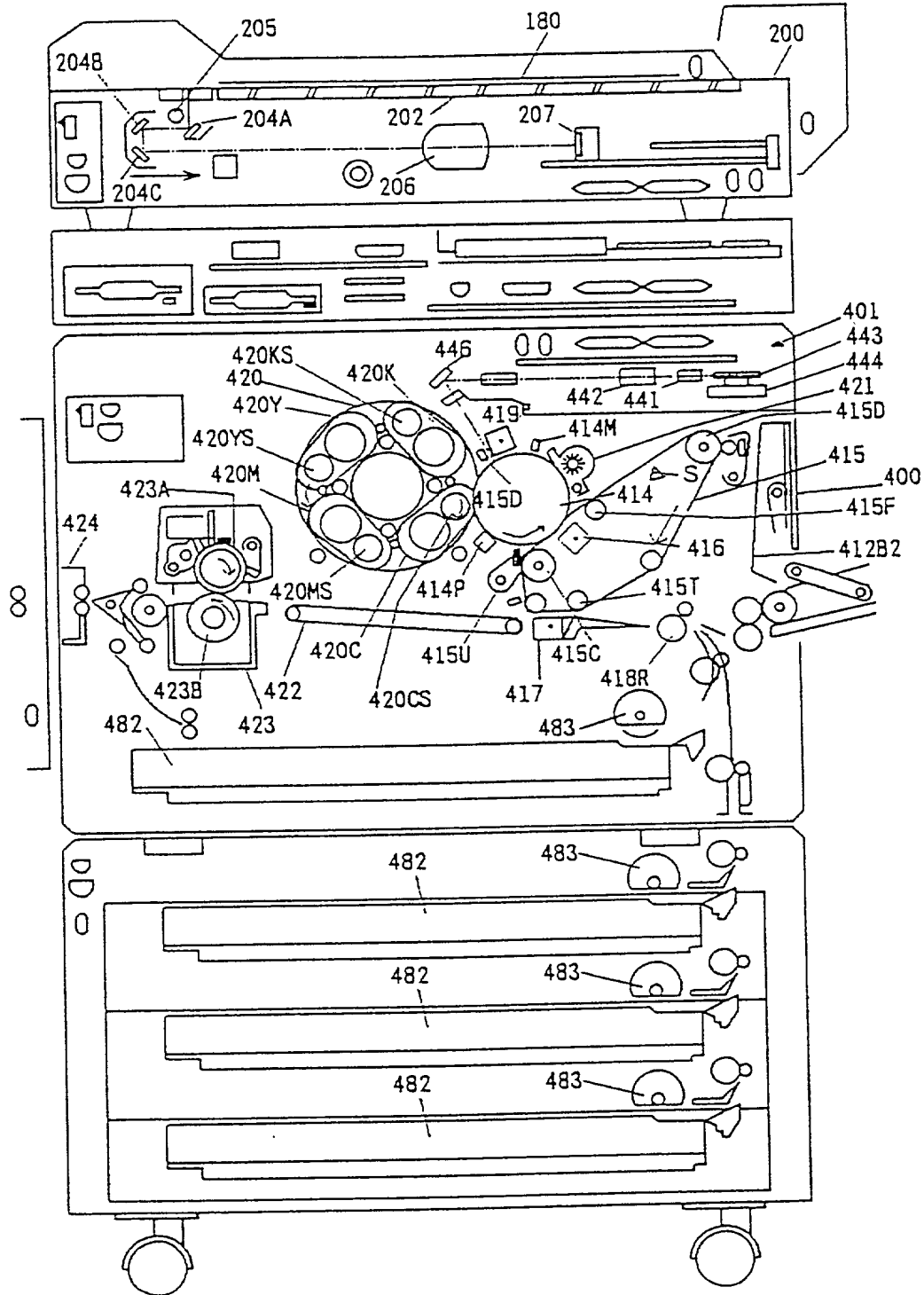


FIG.3



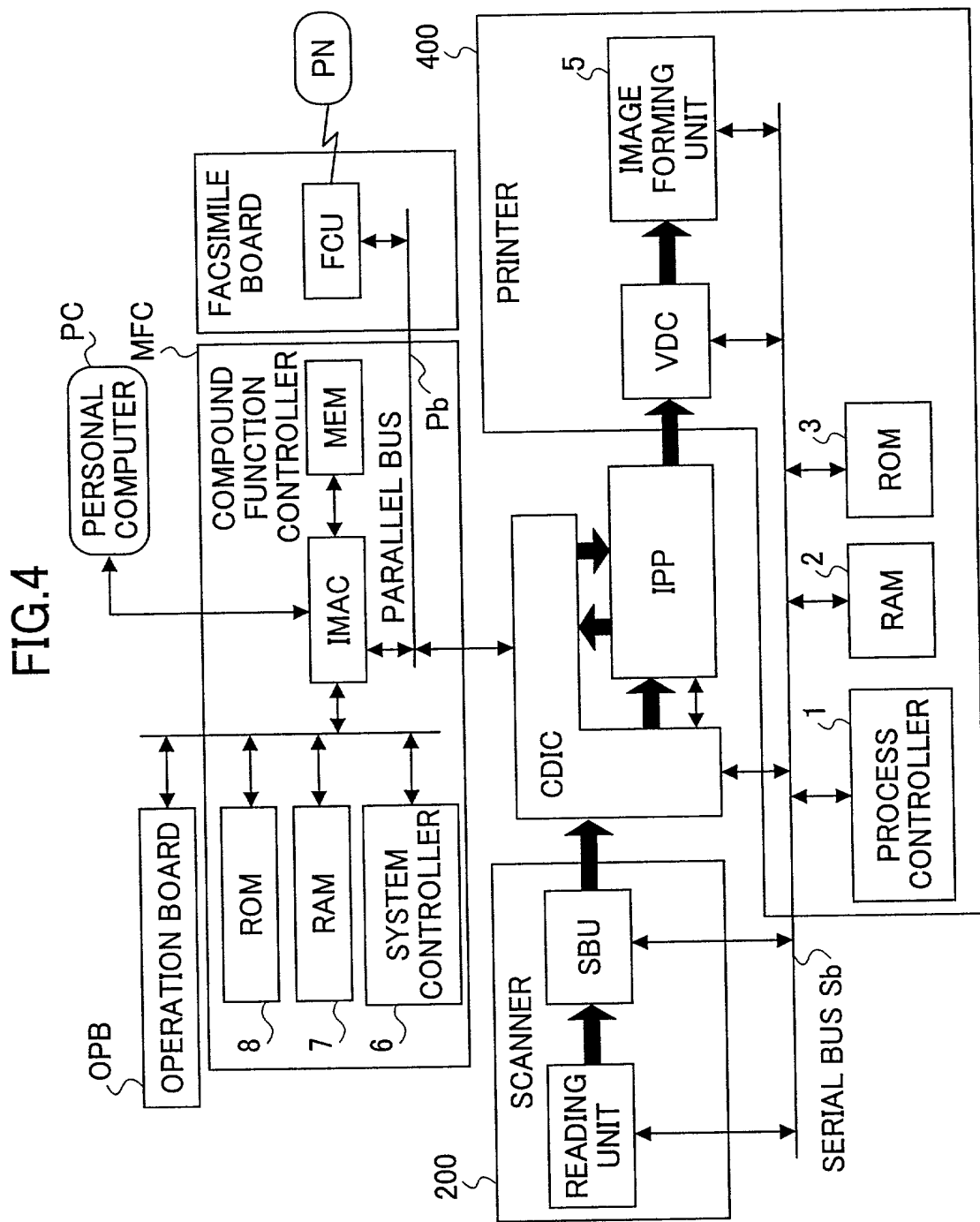


FIG.5

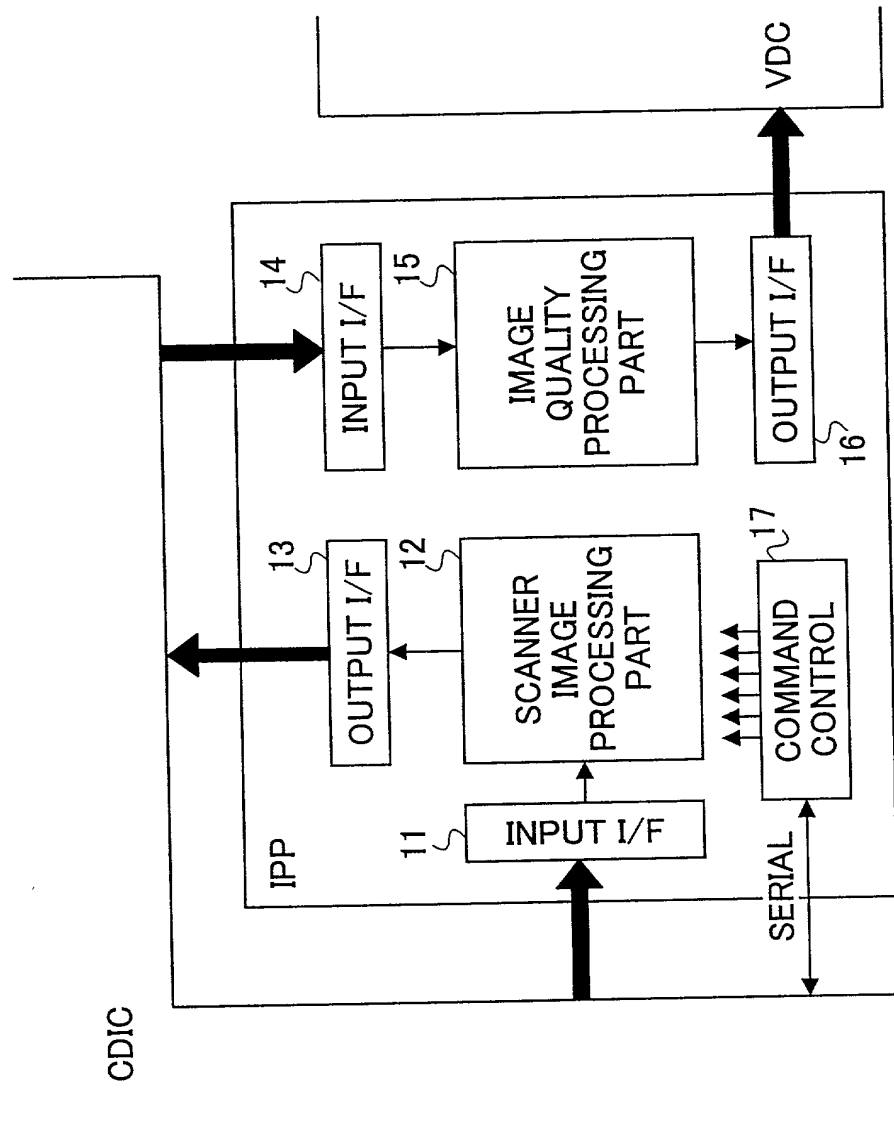


FIG.6

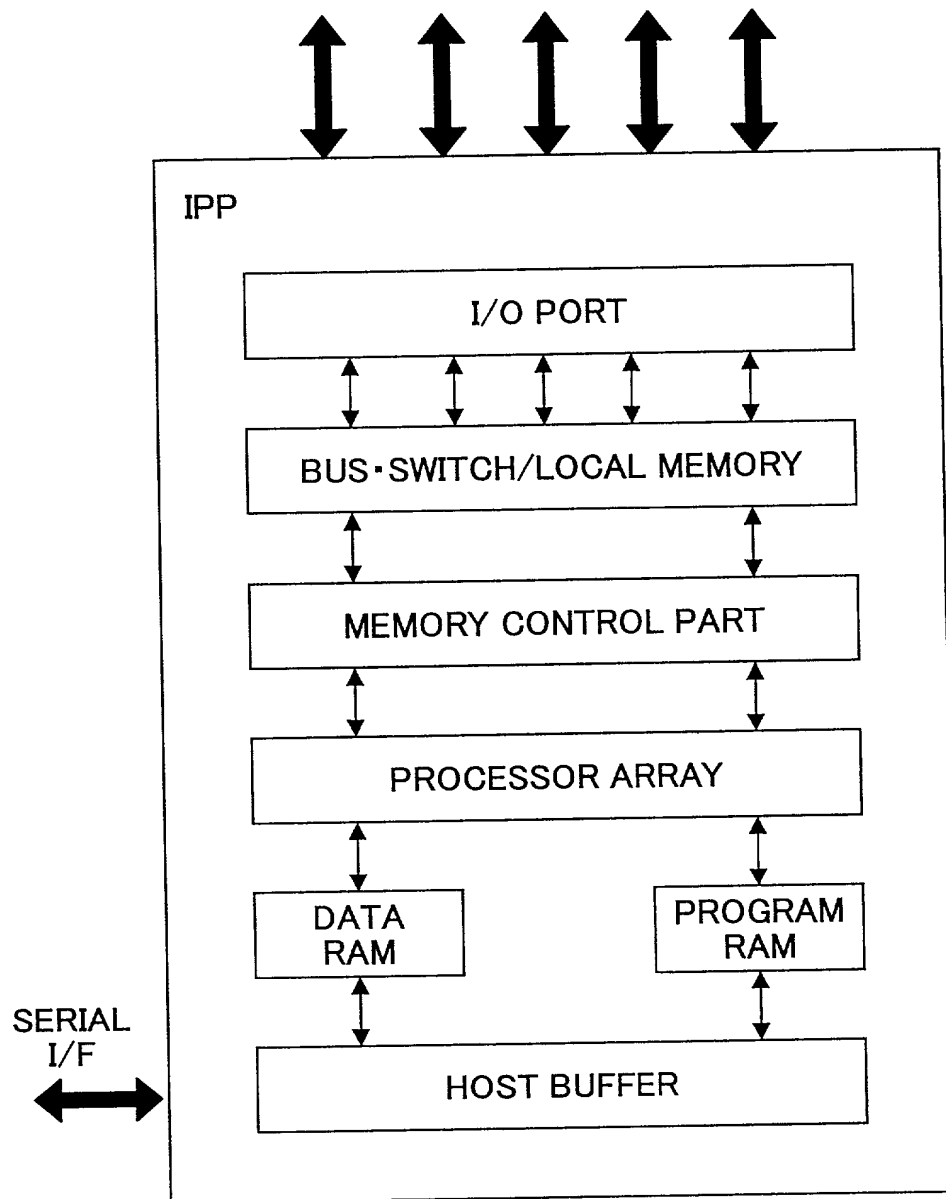


FIG. 7

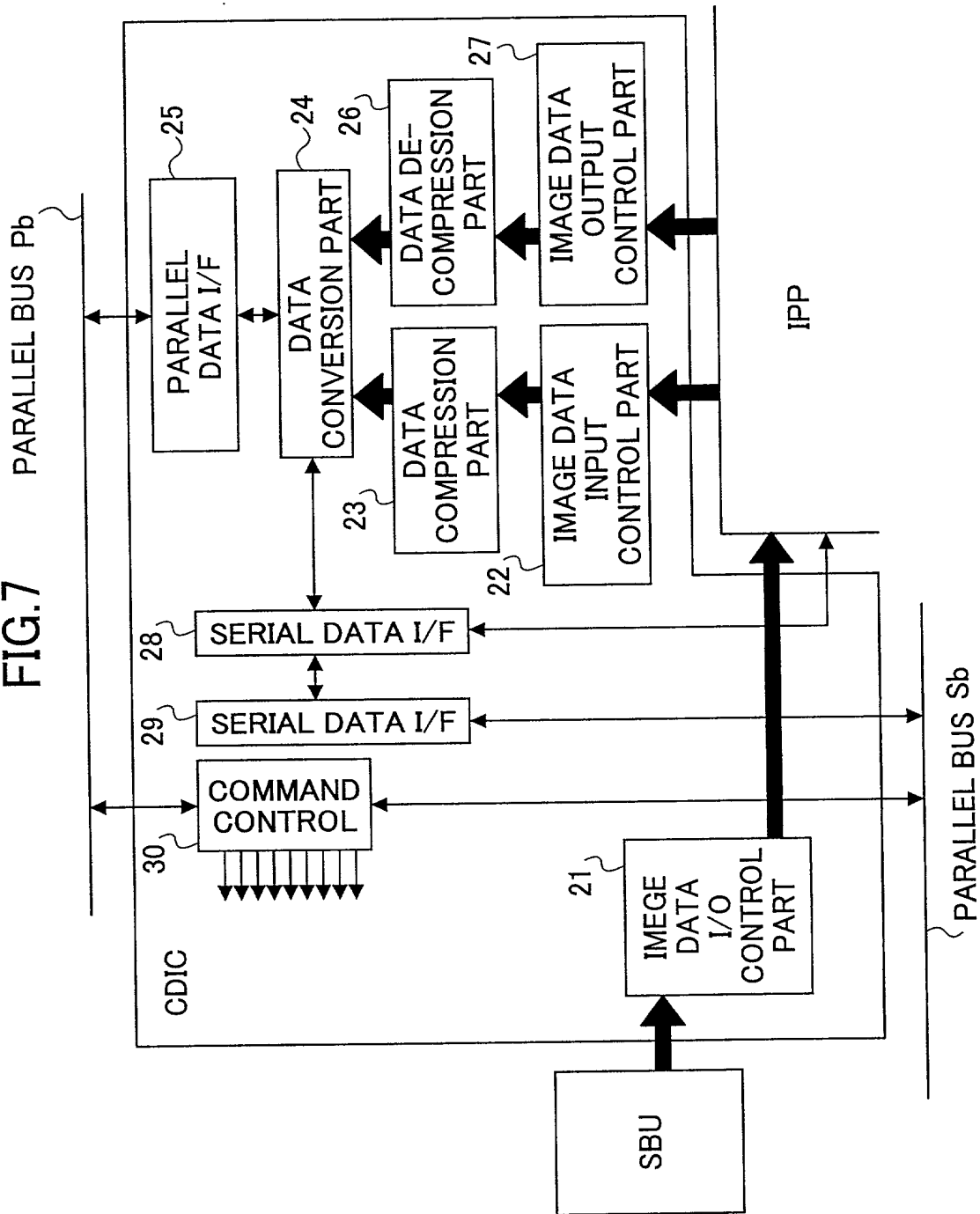


FIG. 8

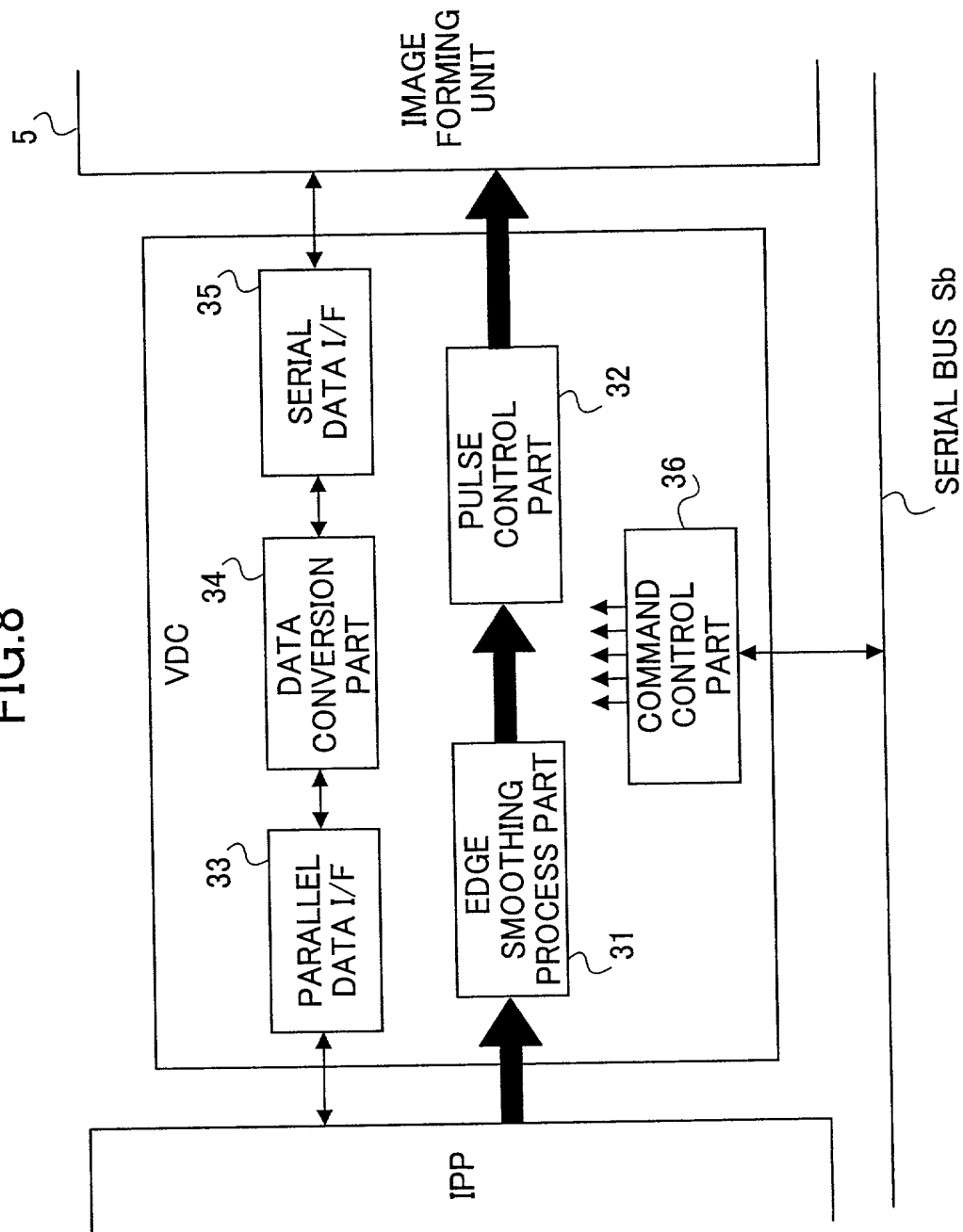


FIG.9

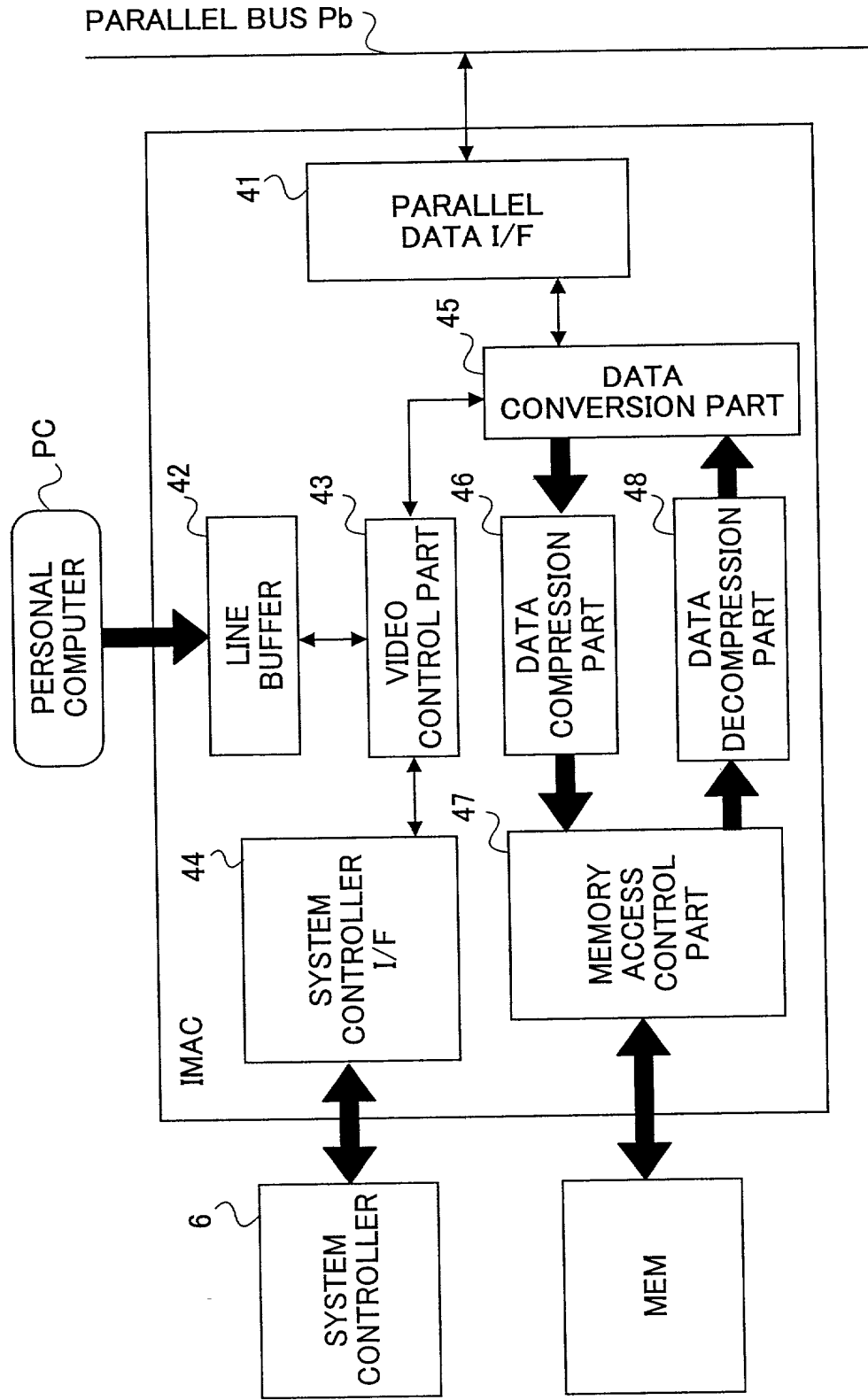


FIG.10

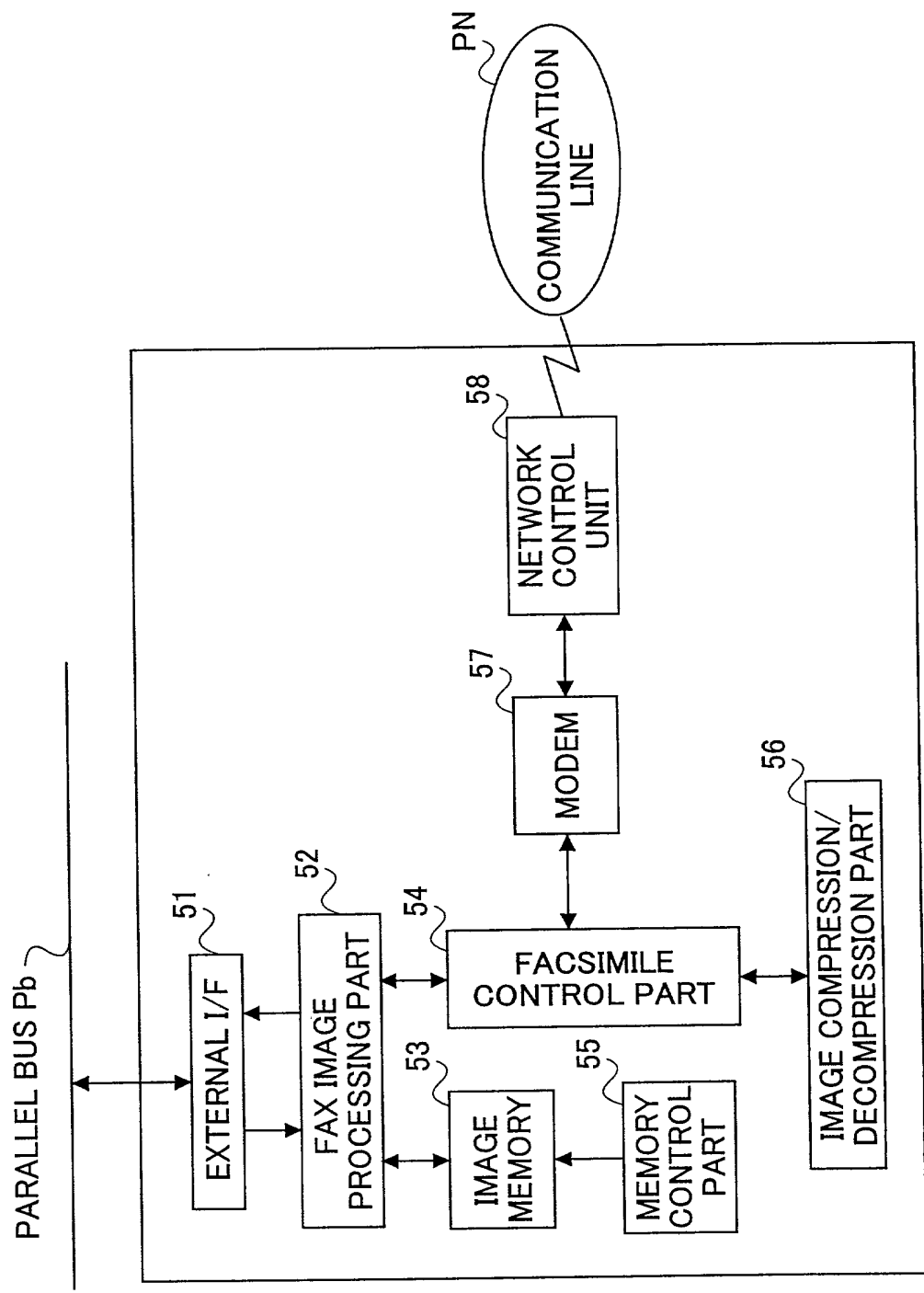


FIG.11

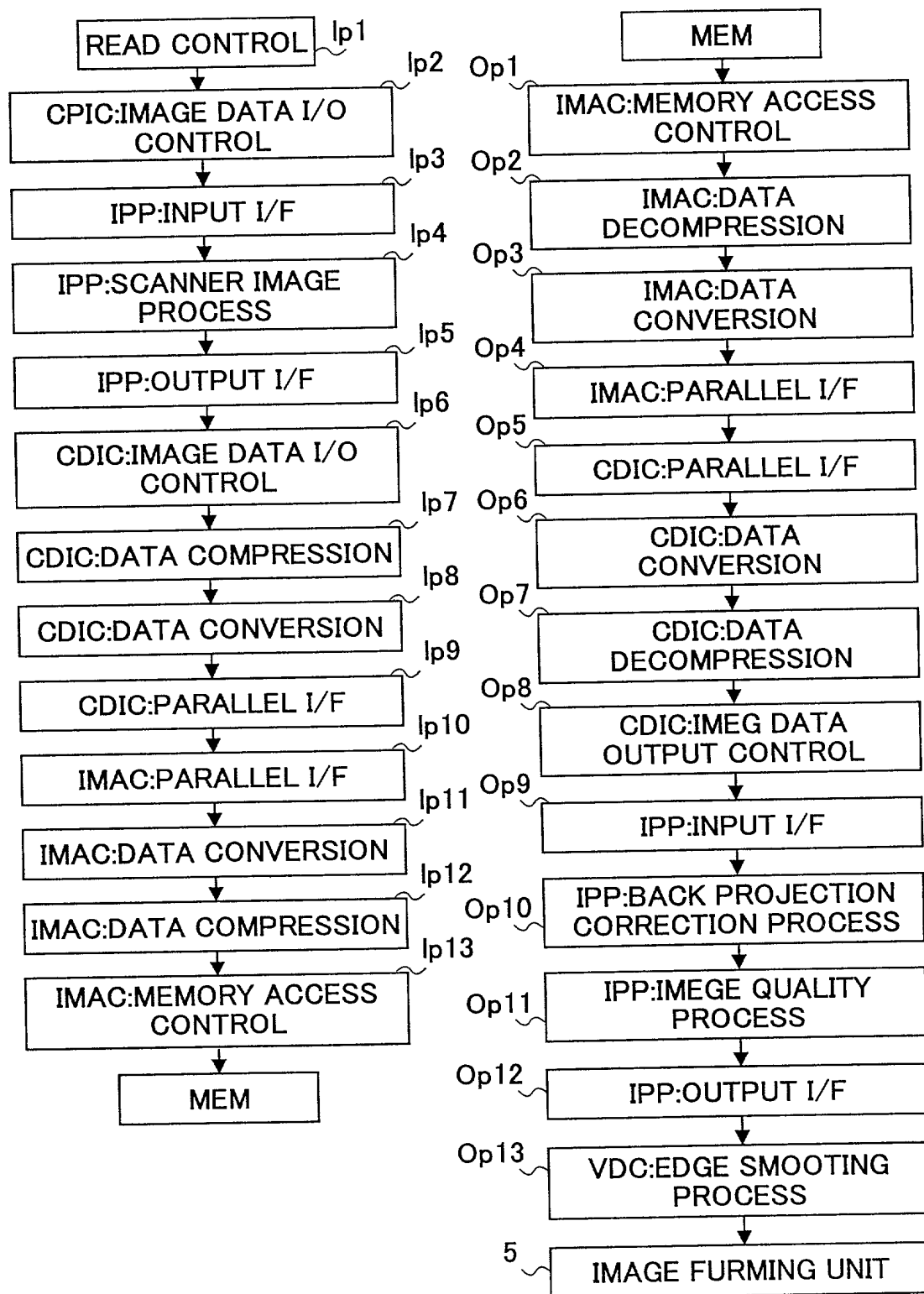


FIG.13A

a	b	c
d	e	f
g	h	i

FIG.13B

A1= | e-a |
A2= | e-b |
A3= | e-c |
A4= | e-d |
A5= | e-f |
A6= | e-g |
A7= | e-h |
A8= | e-i |

FIG.13C

WHEN

A1<B AND
A2<B AND
A3<B AND
A4<B AND
A5<B AND
A6<B AND
A7<B AND
A8<B ,

ATTENTION PIXEL IS DETECTED AS FLAT,
AND C=1 IS SET

FIG.14A

FACTORS OF AVERAGING FILTER

1	1	1	1	1	1	1	1
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66a $\div 8$

CALCULATE AVERAGE FOR EACH 8 PIXELS

FIG.14B

FACTORS OF
SMOOTHING FILTER

1	2	1
2	4	2
1	2	1

71a $\div 16$

FIG.15A

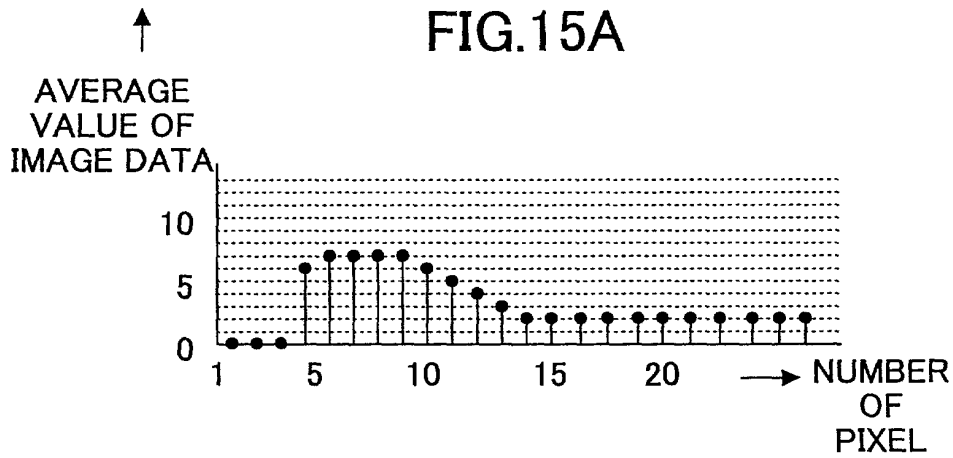


FIG.15B

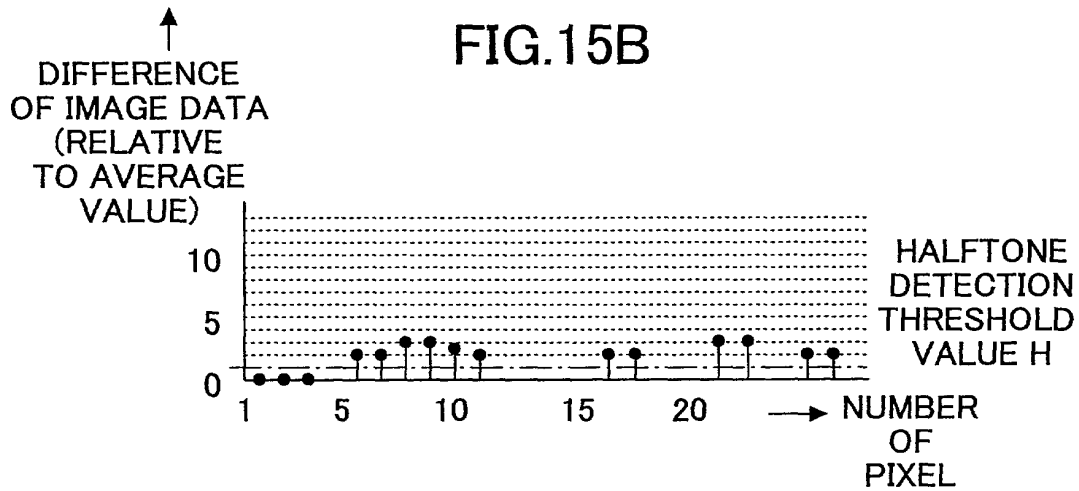


FIG.15C

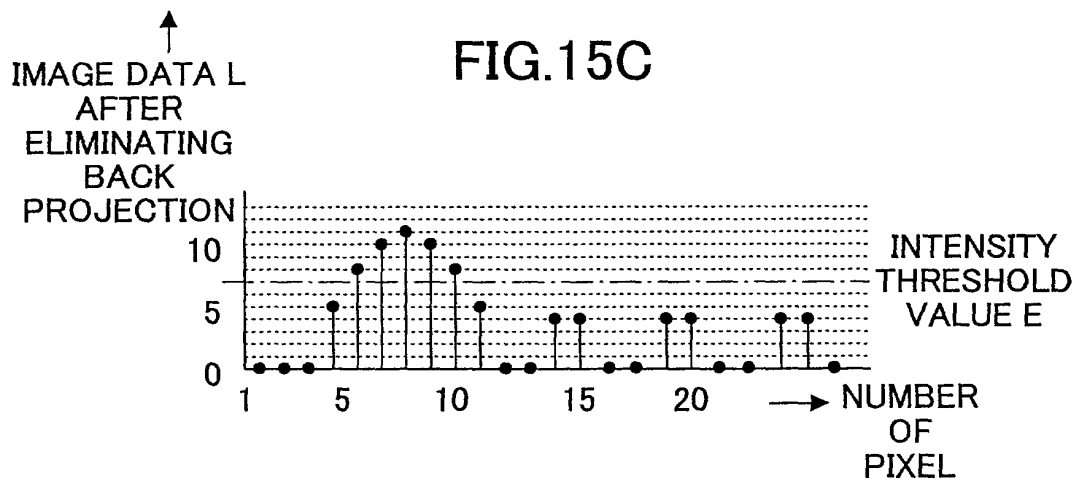


FIG. 16

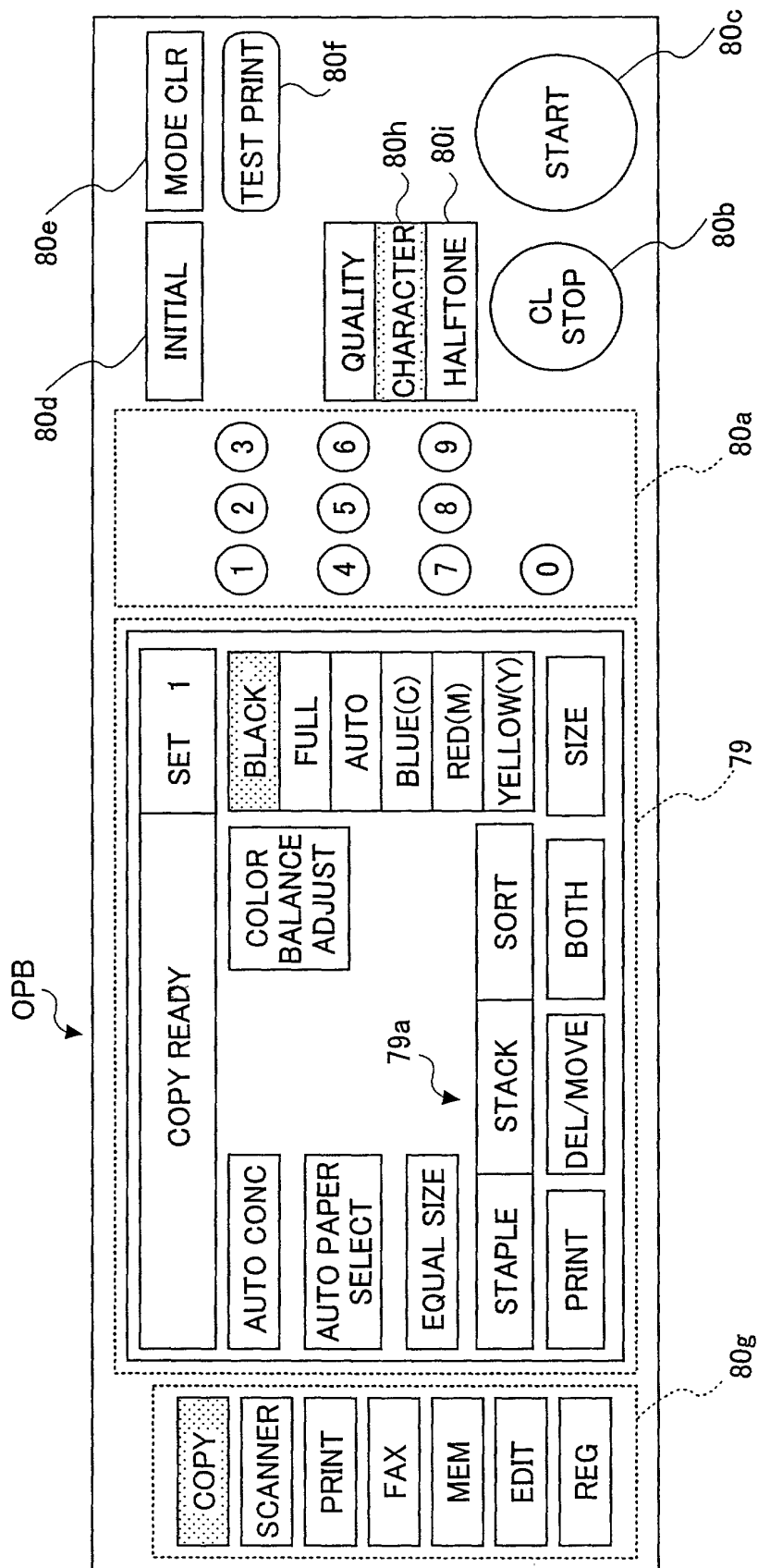


FIG.17

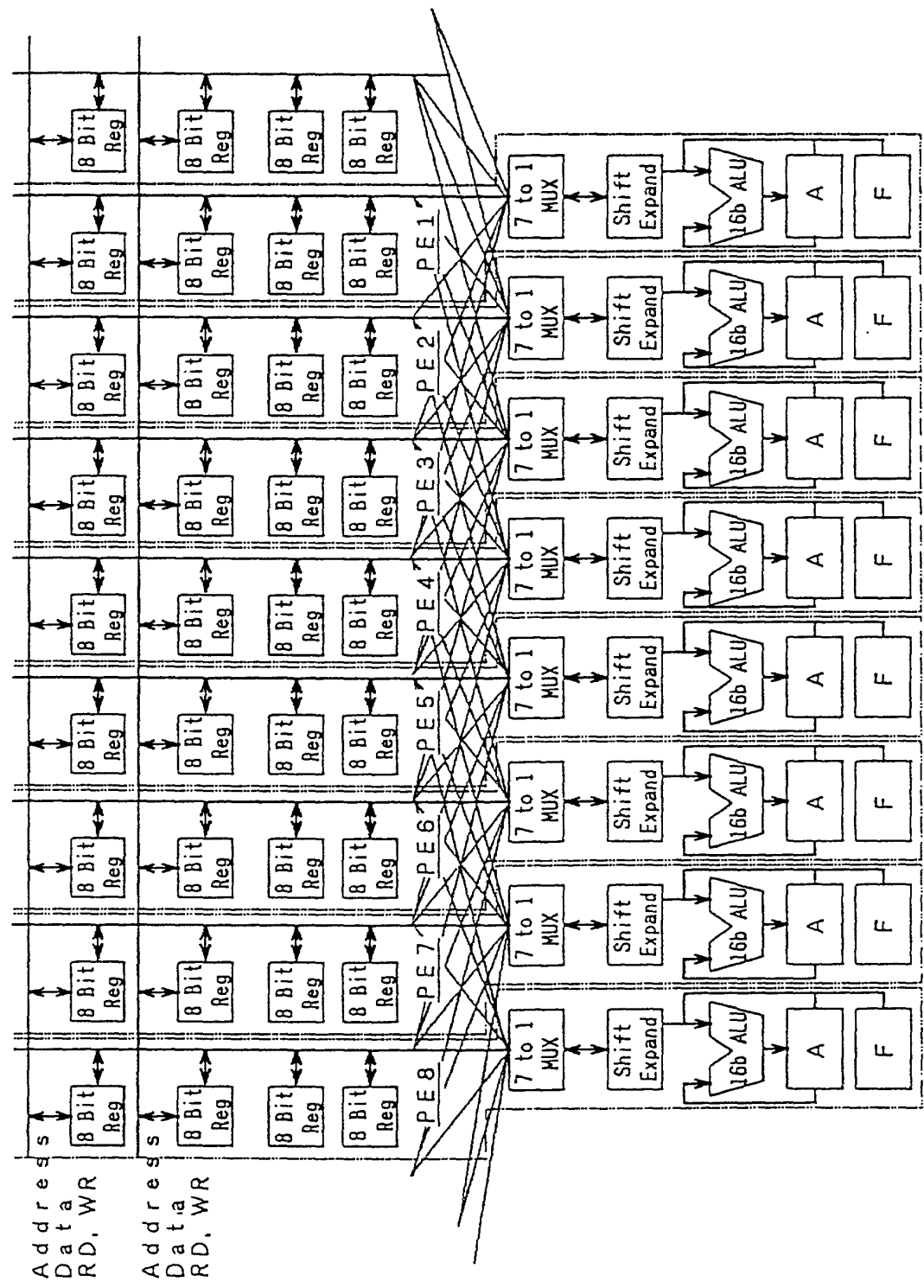


FIG.18

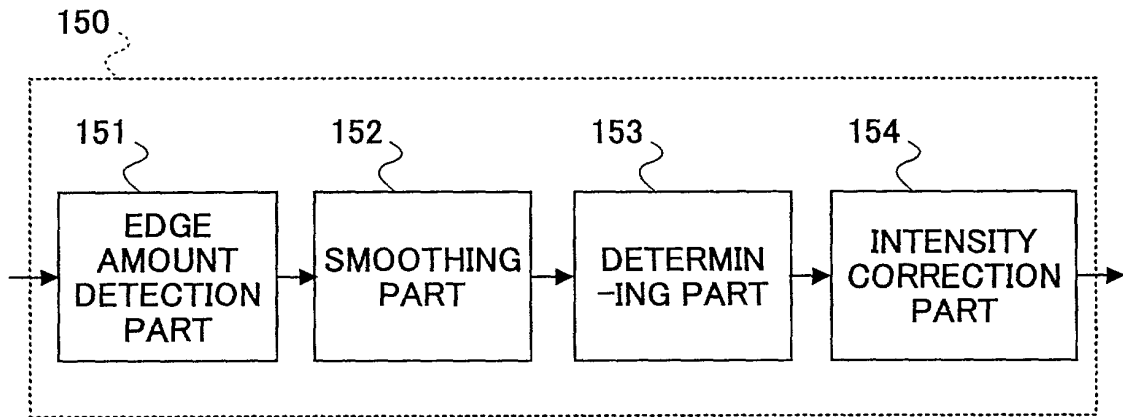


FIG.19A

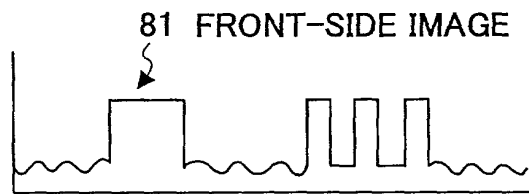


FIG.19B

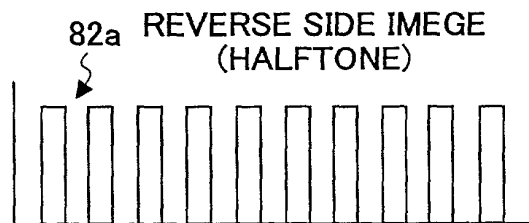


FIG.19C

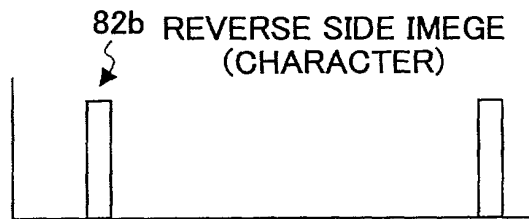


FIG.19D

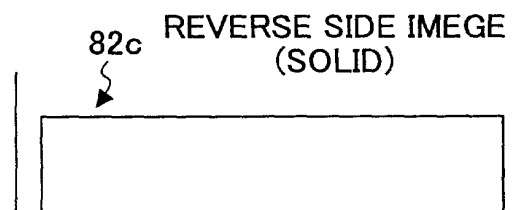


FIG.20

$$L1 = \begin{bmatrix} & -1 & \\ -1 & +4 & -1 \\ & -1 & \end{bmatrix}$$

FIG.21A

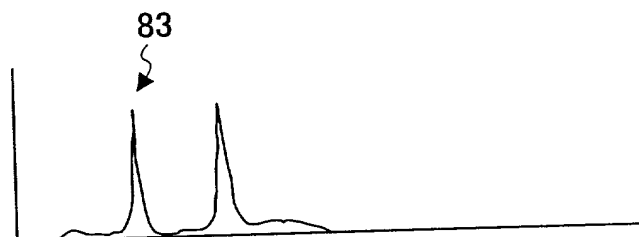


FIG.21B

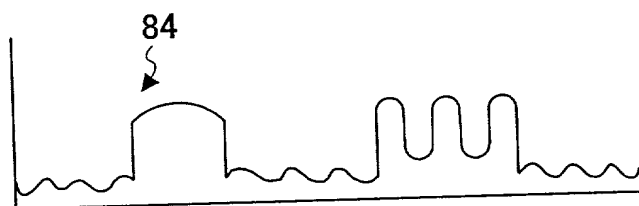


FIG.22

$$L2 = \begin{bmatrix} 1 & 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 & 1 \\ 1 & 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 & 1 \end{bmatrix} \times 1/26$$